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SEQUENCE LISTING

131  
<110> LIVSHITS, VITALIY  
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ALESHIN, VLADIMIR  
BELAREVA, ALLA  
TOKHMAKOVA, IRINA

<120> NOVEL GENE AND METHOD FOR PRODUCING L-AMINO ACIDS

<130> 0010-1070-0

<140> 09/466,935

<141> 1999-12-20

<150> RU98123511

<151> 1998-12-23

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<170> PatentIn version 3.0

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acc acc tcg ctc aac cac ggt tat ccg gcc ggt ggc gtc tat tgc tgg 688  
Thr Thr Ser Leu Asn His Gly Tyr Pro Ala Gly Gly Val Tyr Cys Trp  
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gct tca gac cgg act ggc gat tca tat tgt gct ggt tgg cgt ggg gtt 736  
Ala Ser Asp Arg Thr Gly Asp Ser Tyr Cys Ala Gly Trp Arg Gly Val  
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Gly Thr Leu Phe Ser Arg Ser Val Ile Ala Phe Glu Val Leu Lys Trp  
65 70 75  
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gct ggt gca att gac ctt aaa tcg ctg gcc tct act caa tcg cgt cga 880  
Ala Gly Ala Ile Asp Leu Lys Ser Leu Ala Ser Thr Gln Ser Arg Arg  
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cat ttg ttc cag cgc gca gtt ttt gtg aat ctc acc aat ccc aaa agt 928  
His Leu Phe Gln Arg Ala Val Phe Val Asn Leu Thr Asn Pro Lys Ser  
110 115 120  
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Ile Val Phe Leu Ala Ala Leu Phe Pro Gln Phe Ile Met Pro Gln Gln  
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Leu Trp Ile Lys Gly Pro Lys Gln Met Lys Ala Leu Asn Lys Ile Phe				
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Asn His Gly Tyr Pro Ala Gly Gly Val Tyr Cys Trp Ala Ser Asp Arg				
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Ser Arg Ser Val Ile Ala Phe Glu Val Leu Lys Trp Ala Gly Ala Ala				
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Tyr Leu Ile Trp Leu Gly Ile Gln Gln Trp Arg Ala Ala Gly Ala Ile				
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Gln Tyr Ile Val Leu Gly Val Thr Thr Ile Val Val Asp Ile Ile Val  
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tagtcagcag cataaaaaag tgccagtatg aagactccgt aaacgtttcc cccgcgagtc 180

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 Met Leu Met Leu Phe Leu Thr Val Ala Met Val His Ile Val  
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gcg ctt atg agc ccc ggt ccc gat ttc ttt ttt gtc tct cag acc gct 276  
 Ala Leu Met Ser Pro Gly Pro Asp Phe Phe Phe Val Ser Gln Thr Ala  
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gtc agt cgt tcc cgt aaa gaa gcg atg atg ggc gtg ctg ggc att acc 324

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Cys	Gly	Val	Met	Val	Trp	Ala	Gly	Ile	Ala	Leu	Leu	Gly	Leu	His	Leu	
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		65				70					75					
ggc	ctg	tat	ctc	tgc	tgg	atg	ggc	tac	cag	atg	cta	cgt	ggc	gca	ctg	468
Gly	Leu	Tyr	Leu	Cys	Trp	Met	Gly	Tyr	Gln	Met	Leu	Arg	Gly	Ala	Leu	
	80					85					90					
aaa	aaa	gag	gag	gtt	tct	gca	cct	gag	cca	cag	gtc	gag	ctg	gag	aaa	516
Lys	Lys	Glu	Ala	Val	Ser	Ala	Pro	Ala	Pro	Gln	Val	Glu	Leu	Ala	Lys	
95					100				105						110	
agt	ggg	cgc	agt	ttc	ctg	aaa	ggc	tta	ctg	acc	aat	ctc	gct	aat	ccg	564
Ser	Gly	Arg	Ser	Phe	Leu	Lys	Gly	Leu	Leu	Thr	Asn	Leu	Ala	Asn	Pro	
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Lys	Ala	Ile	Ile	Tyr	Phe	Gly	Ser	Val	Phe	Ser	Leu	Phe	Val	Gly	Asp	
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Asn	Val	Gly	Thr	Thr	Ala	Arg	Trp	Gly	Ile	Phe	Ala	Leu	Ile	Ile	Val	
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Glu	Thr	Leu	Ala	Trp	Phe	Thr	Val	Val	Ala	Ser	Leu	Phe	Ala	Leu	Pro	
		160				165					170					
caa	atg	cgc	cgt	ggc	tat	caa	cgt	ctg	gag	aag	tgg	att	gat	ggc	ttt	756
Gln	Met	Arg	Arg	Gly	Tyr	Gln	Arg	Leu	Ala	Lys	Trp	Ile	Asp	Gly	Phe	
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gcc	ggg	gag	tta	ttt	gcc	gga	ttt	ggc	att	cat	ttg	att	att	tgc	cgg	804
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 50 55 60  
 Glu Lys Met Ala Trp Leu His Thr Leu Ile Met Val Gly Gly Gly Leu  
 65 70 75 80  
 Tyr Leu Cys Trp Met Gly Tyr Gln Met Leu Arg Gly Ala Leu Lys Lys  
 85 90 95  
 Glu Ala Val Ser Ala Pro Ala Pro Gln Val Glu Leu Ala Lys Ser Gly  
 100 105 110  
 Arg Ser Phe Leu Lys Gly Leu Leu Thr Asn Leu Ala Asn Pro Lys Ala  
 115 120 125  
 Ile Ile Tyr Phe Gly Ser Val Phe Ser Leu Phe Val Gly Asp Asn Val  
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 Gly Thr Thr Ala Arg Trp Gly Ile Phe Ala Leu Ile Ile Val Glu Thr  
 145 150 155 160  
 Leu Ala Trp Phe Thr Val Val Ala Ser Leu Phe Ala Leu Pro Gln Met  
 165 170 175  
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 Ala Leu Phe Ala Gly Phe Gly Ile His Leu Ile Ile Ser Arg  
 195 200 205

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